

17 March 1986

MEMORANDUM FOR THE RECORD

SUBJECT: INTERNET Review Meeting on 11 March 1986 - COMSAT/FBIS

<u>Attendees:</u>	Helmo Raag	COMSAT
	William Cool	COMSAT



The following items were reviewed and necessary action items identified:

a. COMSAT presented a potential system for order wire equipment. FBIS will review this proposal and take action to notify all parties as to the equipment selected.

b. Shipment of equipment to Panama:

It was agreed that COMSAT will provide FBIS the following information three weeks prior to pick-up by the shipper.

- Location of equipment
- Number of sea vans required
- Contact at pick-up address
- Complete inventory, including size and weight, of items in each van.

FBIS will arrange for the packed sea vans to be picked-up, shipped to Panama, and delivered to the site. Packing and unpacking is the responsibility of COMSAT. It was emphasized that clearing customs will go much quicker if the number of containers is minimized. It was also agreed that FBIS will handle shipment of spares and replacement parts to the site.

c. There was a discussion of the need to have active remote control of the earth terminal during the hours when the Bureau was closed. It was decided that the remote control equipment and telephone connection to INTERCOMSA would not be implemented at this time. The physical earth terminal design would deliver the signals to be monitored and the control lines to the Bureau, but no modems would be provided. COMSAT will provide a breakdown of the total cost differential resulting from this decision (equipment, O & M, and communication line differentials).

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d. It was decided that the antenna pad would be oriented so as to allow the antenna to cover a 180 degree arc, plus/minus 90 degrees from due south. This coverage would be accomplished in three overlapping 70 degree segments. COMSAT estimated that it would take an experienced technician approximately an hour to reconfigure the assembly for each 70 degree segment.

e. The issue of group delay on the wideband FAX signal was discussed at length. To eliminate further misinterpretation, especially on the part of BTI, FBIS established the point that they did not intend nor would they provide a group delay specification for BTI to design against. Since FBIS is paying simply for a service, the following procedure was defined. FBIS will provide COMSAT a tape of the signal used to print the FAX. COMSAT will provide this tape to BTI, for their analysis. Once BTI has established the microwave link, that signal will be fed through the link to Madley, where it will be recorded again. The sole criteria for acceptance of the transmission service is the ability of BTI to pass the signal undegraded from Caversham to Madley. Comparison of pretransmission to post transmission signal quality will be conducted by FBIS Headquarters and COMSAT.

f. The BTI schedule has not yet been firmed up and COMSAT expressed some concern as to whether they would meet the projected 1 October date. There will be a COMSAT/BTI meeting, to firm up the milestone schedule, at the end of March or early April.

g. It was decided that FBIS would convene a joint meeting with COMSAT, OTI and STS early in April to generate a composite milestone chart for the overall system. This meeting necessarily must await the resolution of the BTI schedule.

h. COMSAT will prepare, for FBIS review, a draft work statement for their portion of the network. This will incorporate the work statements issued by COMSAT to BTI, INTERCOMSA, and STS.

i. COMSAT will commence regular monthly reports in April.

j. COMSAT raised an issue concerning the compatibility of TV signals with the energy dispersal waveform. The standard INTELSAT energy dispersal is projected to adversely affect non NTSC formats because of the different number of frames per second. COMSAT offered to simulate the situation to assist in evaluating the problem. Depending upon the result, the earth terminals may have to be expanded to adjust the energy dispersal waveform to the particular TV format being transmitted. FBIS will take

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the action to coordinate the required modification, if any, with OTI, and COMSAT will coordinate the same with BTI and STS.

k. COMSAT will document the input levels and impedances required to interface with the bureaus at Caversham and Panama.



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cc: COMSAT

COMSAT's copy given to Mr. Raag.

*21 March 86*